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L32: Entry 1 of 4

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020149369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020149369 A1

TITLE: Microfluidic device with multiple microcoil NMR detectors

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	
Strand, David	Sherborn	MA	US	
Sweedler, Jonathan	Urbana	IL	US	

US-CL-CURRENT: 324/321; 324/306, 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

☐ 2. Document ID: US 20020130661 A1

L32: Entry 2 of 4

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020130661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020130661 A1

TITLE: Nuclear magnetic resonance analysis of multiple samples

PUBLICATION-DATE: September 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Raftery, Daniel	Lafayette	IN	US	
Fisher, George G.	Oak Harbor	WA	US	
Petucci, Christopher J.	Memphis	TN	US	
McNamara, Ernesto	Alexandria	VA	US	

US-CL-CURRENT: 324/318; 324/309, 324/321, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw Desc	Image										

☐ 3. Document ID: US 20020105327 A1

L32: Entry 3 of 4

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020105327 A1

TITLE: Steep solvent gradient NMR analysis method

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	

US-CL-CURRENT: 324/306; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 4. Document ID: US 6194900 B1

L32: Entry 4 of 4

File: USPT

Feb 27, 2001

US-PAT-NO: 6194900

DOCUMENT-IDENTIFIER: US 6194900 B1

TITLE: Integrated miniaturized device for processing and NMR detection of liquid phase samples

DATE-ISSUED: February 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freeman; Dominique M.	Pescadero	CA		
Swedberg; Sally A.	Palo Alto	CA		

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

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SILICA	412228
SILICA S	15897
PEEK	8809
PEEK S	287
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L30: Entry 1 of 5

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020149369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020149369 A1

TITLE: Microfluidic device with multiple microcoil NMR detectors

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	
Strand, David	Sherborn	MA	US	
Sweedler, Jonathan	Urbana	IL	US	

US-CL-CURRENT: 324/321; 324/306, 435/4

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>
<a href="#">Draw Desc</a>	<a href="#">Image</a>								

[KWD](#)☐ 2. Document ID: US 20020130661 A1

L30: Entry 2 of 5

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020130661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020130661 A1

TITLE: Nuclear magnetic resonance analysis of multiple samples

PUBLICATION-DATE: September 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Raftery, Daniel	Lafayette	IN	US	
Fisher, George G.	Oak Harbor	WA	US	
Petucci, Christopher J.	Memphis	TN	US	
McNamara, Ernesto	Alexandria	VA	US	

US-CL-CURRENT: 324/318; 324/309, 324/321, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 3. Document ID: US 20020105327 A1

L30: Entry 3 of 5

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020105327 A1

TITLE: Steep solvent gradient NMR analysis method

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	

US-CL-CURRENT: 324/306; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 4. Document ID: US 6194900 B1

L30: Entry 4 of 5

File: USPT

Feb 27, 2001

US-PAT-NO: 6194900

DOCUMENT-IDENTIFIER: US 6194900 B1

TITLE: Integrated miniaturized device for processing and NMR detection of liquid phase samples

DATE-ISSUED: February 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freeman; Dominique M.	Pescadero	CA		
Swedberg; Sally A.	Palo Alto	CA		

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 5. Document ID: US 6097188 A

L30: Entry 5 of 5

File: USPT

Aug 1, 2000

US-PAT-NO: 6097188

DOCUMENT-IDENTIFIER: US 6097188 A

TITLE: Microcoil based micro -NMR spectrometer and method

DATE-ISSUED: August 1, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sweedler; Jonathan V.	Urbana	IL		
Magin; Richard L.	Urbana	IL		
Peck; Timothy L.	Champaign	IL		
Webb; Andrew G.	Urbana	IL		

US-CL-CURRENT: 324/321; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

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Term	Documents
RECEPTION	383801
RECEPTIONS	2698
DETECT\$6	0
DETECT	1103235
DETECTA	16
DETECTAB	1
DETECTABALE	9
DETECTABCLE	1
DETECTABE	9
DETECTABEL	9
DETECTABIE	5
(L29 AND (DETECT\$6 OR RECEPTION OR RECEIV\$5 OR SENS\$5)). USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	5

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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 10 returned.**☐ 1. Document ID: US 20020149369 A1

L27: Entry 1 of 10

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020149369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020149369 A1

TITLE: Microfluidic device with multiple microcoil NMR detectors

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	
Strand, David	Sherborn	MA	US	
Sweedler, Jonathan	Urbana	IL	US	

US-CL-CURRENT: 324/321; 324/306, 435/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 2. Document ID: US 20020130661 A1

L27: Entry 2 of 10

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020130661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020130661 A1

TITLE: Nuclear magnetic resonance analysis of multiple samples

PUBLICATION-DATE: September 19, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Raftery, Daniel	Lafayette	IN	US	
Fisher, George G.	Oak Harbor	WA	US	
Petucci, Christopher J.	Memphis	TN	US	
McNamara, Ernesto	Alexandria	VA	US	

US-CL-CURRENT: 324/318; 324/309, 324/321, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 3. Document ID: US 20020105327 A1

L27: Entry 3 of 10

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020105327

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020105327 A1

TITLE: Steep solvent gradient NMR analysis method

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Peck, Tim L.	Mahomet	IL	US	
Olson, Dean	Champaign	IL	US	
Norcross, Jim	Champaign	IL	US	

US-CL-CURRENT: 324/306; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 4. Document ID: US 6456072 B1

L27: Entry 4 of 10

File: USPT

Sep 24, 2002

US-PAT-NO: 6456072

DOCUMENT-IDENTIFIER: US 6456072 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Method and apparatus for simultaneous acquisition of high resolution NMR spectra from multiple samples

DATE-ISSUED: September 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Webb; Andrew G.	Champaign	IL		
Sweedler; Jonathan V.	Urbana	IL		

US-CL-CURRENT: 324/308; 324/307, 324/309, 324/310, 324/312, 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 5. Document ID: US 6194900 B1

L27: Entry 5 of 10

File: USPT

Feb 27, 2001



US-PAT-NO: 6194900  
DOCUMENT-IDENTIFIER: US 6194900 B1

TITLE: Integrated miniaturized device for processing and NMR detection of liquid phase samples

DATE-ISSUED: February 27, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freeman; Dominique M.	Pescadero	CA		
Swedberg; Sally A.	Palo Alto	CA		

US-CL-CURRENT: 324/321; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	EMC
Draw Desc	Image									

☐ 6. Document ID: US 6097188 A

L27: Entry 6 of 10

File: USPT

Aug 1, 2000

US-PAT-NO: 6097188  
DOCUMENT-IDENTIFIER: US 6097188 A

TITLE: Microcoil based micro -NMR spectrometer and method

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sweedler; Jonathan V.	Urbana	IL		
Magin; Richard L.	Urbana	IL		
Peck; Timothy L.	Champaign	IL		
Webb; Andrew G.	Urbana	IL		

US-CL-CURRENT: 324/321; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	EMC
Draw Desc	Image									

☐ 7. Document ID: US 6061587 A

L27: Entry 7 of 10

File: USPT

May 9, 2000

US-PAT-NO: 6061587  
DOCUMENT-IDENTIFIER: US 6061587 A

TITLE: Method and apparatus for use with MR imaging

DATE-ISSUED: May 9, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kucharczyk; John	Edina	MN		
Moseley; Michael E.	Redwood City	CA		

US-CL-CURRENT: 600/411; 600/431, 600/432, 600/433, 604/151, 604/152, 604/153,  
604/154, 604/155, 604/21, 604/93.01

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 8. Document ID: US 6026316 A

L27: Entry 8 of 10

File: USPT

Feb 15, 2000

US-PAT-NO: 6026316

DOCUMENT-IDENTIFIER: US 6026316 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Method and apparatus for use with MR imaging

DATE-ISSUED: February 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kucharczyk; John	Edina	MN		
Moseley; Michael E.	Redwood City	CA		

US-CL-CURRENT: 600/420; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 9. Document ID: US 5684401 A

L27: Entry 9 of 10

File: USPT

Nov 4, 1997

US-PAT-NO: 5684401

DOCUMENT-IDENTIFIER: US 5684401 A

TITLE: Apparatus and method for compensation of magnetic susceptibility variation in  
NMR microspectroscopy detection microcoils

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peck; Timothy L.	Champaign	IL		
Olson; Dean L.	Champaign	IL		
Sweedler; Jonathan V.	Urbana	IL		
Webb; Andrew G.	Urbana	IL		
Magin; Richard L.	Urbana	IL		

US-CL-CURRENT: 324/318; 324/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 10. Document ID: US 5654636 A

L27: Entry 10 of 10

File: USPT

Aug 5, 1997

US-PAT-NO: 5654636

DOCUMENT-IDENTIFIER: US 5654636 A

TITLE: Method and apparatus for NMR spectroscopy of nanoliter volume samples

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sweedler; Jonathan V.	Urbana	IL		
Peck; Timothy L.	Champaign	IL		
Webb; Andrew G.	Urbana	IL		
Magin; Richard L.	Urbana	IL		
Wu; Nian	Columbia	MD		

US-CL-CURRENT: 324/321; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
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Term	Documents
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SILICA	412228
SILICAS	15897
PEEK	8809
PEEK S	287
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 US Pre-Grant Publication Full-Text Database  
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 IBM Technical Disclosure Bulletin

**Term:**

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side by side**Hit Count** **Set Name**  
result set

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L37	EP1275011A1	0	L37
L36	001275011	0	L36
L35	1275011	6	L35
L34	6504368	3	L34
L33	l26 and (vargas)	1	L33
L32	L31 and ((fused adj silica) or PEEK)	4	L32
L31	L30 and (fluid\$5 with (rout\$4 or control\$4 or direct\$4 or separat\$4 or divert\$5 or select\$6))	4	L31
L30	L29 and (detect\$6 or reception or receiv\$5 or sens\$5)	5	L30
L29	L28 and (site or location or chamber or tube or rout\$4 or fluid\$6)	5	L29
L28	L26 and (((sample or analyte) with (hold\$6 or held)) or void)	5	L28
L27	L26 and ((fused adj silica) or PEEK)	10	L27

<u>L26</u>	L24 and ((microcoil or micro-coil or (micro adj coil)) with (helical\$3 or spiral\$3 or solenoid\$4))	25	<u>L26</u>
<u>L25</u>	L24	160101	<u>L25</u>
<u>L24</u>	((magnetic adj resonance) or MRI or NMR)	160101	<u>L24</u>
<u>L23</u>	L22 and (microcoil with (helical\$3 or spiral\$3 or solenoid\$4))	1	<u>L23</u>
<u>L22</u>	fetzner	179	<u>L22</u>
<u>L21</u>	L20 and (memory)	1	<u>L21</u>
<u>L20</u>	L19 and (photo\$9)	2	<u>L20</u>
<u>L19</u>	L17 and (pump\$4)	2	<u>L19</u>
<u>L18</u>	L17 and (pump)	1	<u>L18</u>
<u>L17</u>	L16 and (sound or sonic\$8 or acoustic\$6 or IR or UV)	2	<u>L17</u>
<u>L16</u>	L14 and (heat\$4)	2	<u>L16</u>
<u>L15</u>	L14 and (gradient)	1	<u>L15</u>
<u>L14</u>	L13 and ((capillary adj electrophoresis) or CE)	2	<u>L14</u>
<u>L13</u>	L12 and (liquid adj chromatography)	2	<u>L13</u>
<u>L12</u>	L11 and (extraction with chamber)	2	<u>L12</u>
<u>L11</u>	L10 and (microcoil with planar)	2	<u>L11</u>
<u>L10</u>	L9 and (microcoil with (helical, pr spiral, or solenoid\$4))	2	<u>L10</u>
<u>L9</u>	L8 and (optimiz\$9)	2	<u>L9</u>
<u>L8</u>	L7 and (dimension\$6 or spectra or spectrum or spectral)	2	<u>L8</u>
<u>L7</u>	L5 and ((fused adj silica) or PEEK)	2	<u>L7</u>
<u>L6</u>	L5 and ((fused adj ailica) or PEEK)	1	<u>L6</u>
<u>L5</u>	L4 and (sample with size)	2	<u>L5</u>
<u>L4</u>	L3 and ((one or "1") with dimension\$6)	2	<u>L4</u>
<u>L3</u>	L1 and (data with processing)	2	<u>L3</u>
<u>L2</u>	L1 and (controller)	2	<u>L2</u>
<u>L1</u>	6194900	7	<u>L1</u>

END OF SEARCH HISTORY